

# Disinfectants

## ① Saniton tablets

### Active Principle:

Sodium dichloro iso cyanurate

**uses** Sanitation, disinfection of poultry farms, slaughter houses, livestock

**Contraindications** Shouldn't be used before or after live vaccination by 24 hours

## ② Copper Sulphate Blue powder

**uses :** disinfection of water reservoirs  
fungicidal

## ③ KMnO<sub>4</sub> powder, liquid violet powder

**uses :** fumigation process when added with formaline

#### ④ TH4

Green liquid with foams

Active principle:

Didecyl Dimethyl ammonium Chloride

Uses: Bactericidal, Fungicidal

Side effects: Affect human health → infertility  
Birth problems

#### ⑤ Virkon S

pink liquid

Active principle:

NaCl + K-peroxy monosulphate

Uses: Disinfection of animal houses

Advantages: Broad spectrum (Bactericidal, fungicidal, Viricidal)

Stable = Not inactivated by organic matter

#### ⑥ Tincture iodine

Black liquid

Brownish red Colouration of bottle

Active principle

2% iodine

70% Alcohol

Uses: Skin disinfection

Disadvantages:

unstable - staining - Corrosive

↑ Conc → irritation of MM, eye

MOA: oxidizing agents Cause damage by oxidation of Sulfhydryl groups of enzymes





## ⑨ Acetic Acid

**MoA:** Destroy bonds of nucleic acid and precipitation of proteins

Change pH of environment  $\rightarrow$  Kill the MO

**Methods of application:** spraying, misting  
immersing

**Uses:** 4-5%  $\rightarrow$  household vinegar

2%  $\rightarrow$  reduce levels of FMD viruses on contaminated surfaces

reduce bacterial levels in meat packaging plants

reduce levels of Salmonella in feed.

**Disadvantages:** unstable (inactivated by O.M.)

## ⑩ Ethyl alcohol

**MoA:** Dehydration of cell, denaturation of protein

**Uses:** 70%  $\rightarrow$  Antiseptic

80% ethanol + 5% isopropyl alcohol  $\rightarrow$  inactivate

Lipid enveloped viruses HIV, Hepatitis B, C

## ⑪ Ammonia

Ammoniacal odour

uses : fumigation process (Neutralisation)